

Applicant : Lim et al.
Serial No. : 10/707,142
Filed : November 24, 2003
Page : 2 of 7

Attorney's Docket No.: 12406-091001 / P2002,1004 US
E1

Amendments to the Claims:

This listing of claims replaces all prior versions and listings of claims in the application:

Listing of Claims:

1. (Currently Amended) An OLED device comprising:
a substrate having an active region defined thereon, the active region ~~comprises~~
comprising pixels, the substrate having electrodes defined thereon along a first direction ~~such~~
~~that the electrodes are~~ and confined to an electrode region; and
pillars along ~~[[a]]~~the first direction on the substrate, wherein the pillars comprise a
tapered profile, and the electrodes located in grooves between the pillars, and wherein the pillars
extend past ends of the electrodes and outside the electrode region of the substrate to prevent
electrical shorting.
2. (Original) The OLED device of claim 1 wherein:
the pixels comprise an organic functional layer formed by depositing a solution having
organic functional material dissolved in a solvent; and
the pillars are inert to the solvent.
3. (Currently Amended) The OLED device of claim 2 wherein the pillars comprise
a photosensitive material, and the pillars are cured to render the pillars inert to the solvent.
4. (Previously Presented) The OLED device of claim 3 wherein the pillars extend
outside the electrode region to the edges of the substrate.
5. (Previously Presented) The OLED device of claim 1 wherein the pillars comprise
a photosensitive material and the pillars are cured to render the pillars inert to the solvent.

Applicant : Lim et al.
Serial No. : 10/707,142
Filed : November 24, 2003
Page : 3 of 7

Attorney's Docket No.: 12406-091001 / P2002,1004 US
E1

6. (Previously Presented) The OLED device of claim 5 wherein the pillars extend outside the electrode region to the edges of the substrate.

7. (Previously Presented) The OLED device of claim 1 wherein the pillars extend outside the electrode region to the edges of the substrate.

8. (Currently Amended) A flexible OLED device comprising:
a flexible substrate having an active region defined thereon, the active region ~~comprises~~ comprising OLED pixels, the flexible substrate having electrodes defined thereon along a first direction ~~such that the electrodes are~~ and confined to an electrode region; and
pillars along [[a]]the first direction on the substrate, wherein the pillars comprise a tapered profile, and the electrodes located in grooves between the pillars, and wherein the pillars extend past ends of the electrodes and outside the electrode region of the substrate to prevent electrical shorting.

9. (Original) The flexible OLED device of claim 8 wherein the flexible substrate comprises plastic or thin glass.

10. (Original) The OLED device of claim 9 wherein:
the pixels comprise an organic functional layer formed by depositing a solution having organic functional material dissolved in a solvent; and
the pillars are inert to the solvent.

11. (Previously Presented) The OLED device of claim 10 wherein the pillars comprise a photosensitive material and the pillars are cured to render the pillars inert to the solvent.

Applicant : Lim et al.
Serial No. : 10/707,142
Filed : November 24, 2003
Page : 4 of 7

Attorney's Docket No.: 12406-091001 / P2002,1004 US
E1

12. (Previously Presented) The OLED device of claim 11 wherein the pillars extend outside the electrode region to the edges of the substrate.

13. (Previously Presented) The OLED device of claim 10 wherein the pillars comprise a photosensitive material and the pillars are cured to render the pillars inert to the solvent.

14. (Previously Presented) The OLED device of claim 11 wherein the pillars extend outside the electrode region to the edges of the substrate.

15. (Previously Presented) The OLED device of claim 10 wherein the pillars extend outside the electrode region to the edges of the substrate.

16. (Currently Amended) An OLED device comprising:
a substrate having an active region defined thereon, the active region ~~comprises~~ comprising OLED pixels, the substrate having electrodes defined thereon along a first direction ~~such that the electrodes are~~ and confined to an electrode region, wherein an organic functional layer of the OLED pixels is formed by depositing a solution having organic functional material dissolved in a solvent; and
pillars along ~~[[a]]~~ the first direction on a the substrate, wherein the pillars are inert to the solvent and comprise a tapered profile, and the electrodes located in grooves between the pillars, and wherein the pillars extend past ends of the electrodes and outside the electrode region of the substrate to prevent electrical shorting.